

Attorney Docket No.: RU-0224
Inventors: Fennell and Haggbloom
Serial No.: 10/828,781
Filing Date: April 21, 2004
Page 3

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A method for remediating a material contaminated with a halogenated aromatic compound comprising introducing a mixed culture of bacteria comprising *Dehalococcoides ethenogenes* strain 195 and another *Dehalococcoides ethenogenes* strain into a material contaminated with a halogenated aromatic compound so that said ~~strain~~ mixed culture of bacteria removes at least one halogen group from the aromatic compound thereby remediating the material, and wherein said *Dehalococcoides ethenogenes* strain 195 is present in the culture at a concentration percentage of from 30 to 80 percent of the total culture.

Claim 2 (canceled).

Claim 3 (original): The method of claim 1, wherein the remediation is carried out *in situ* or *ex situ*.

Claim 4 (original): The method of claim 1, further comprising adding a simple halogenated compound into the contaminated material.

Claim 5 (currently amended): A method for enhancing a bioremediation process of a contaminated material comprising introducing into a material contaminated with a halogenated

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Page 4

aromatic compound, wherein said material contains Dehalococcoides ethenogenes strain 195 present in a mixed culture with another Dehalococcoides ethogenes strain, wherein said Dehalococcoides ethenogenes strain 195 is present in the culture at a concentration percentage of from 30 to 80 percent of the total culture a ~~dehalogenating~~ organism, an effective amount of a simple halogenated compound so that the growth of the organism is stimulated or supported thereby enhancing the bioremediation process of the contaminated material.

Claim 6 (canceled).

Claim 7 (original): The method of claim 5, further comprising adding an electron donor.

Claim 8 (canceled).